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Fig. 1

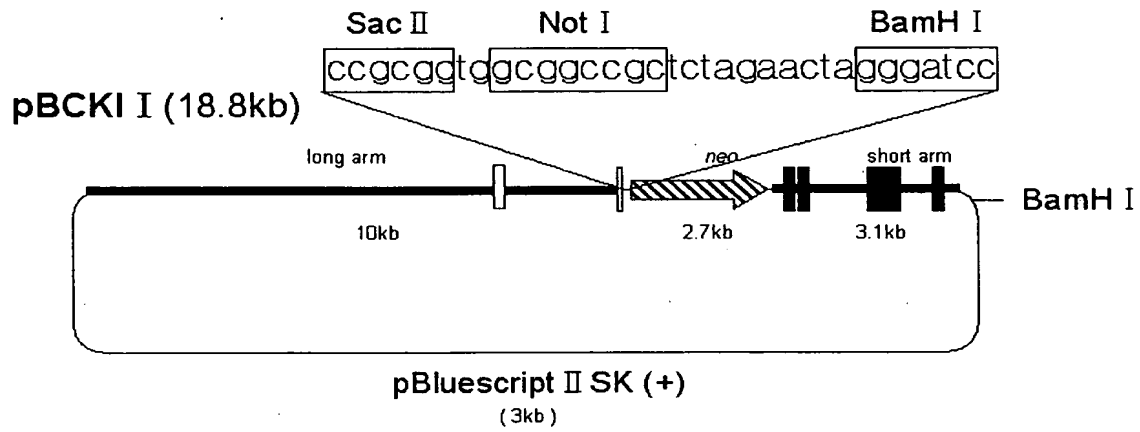
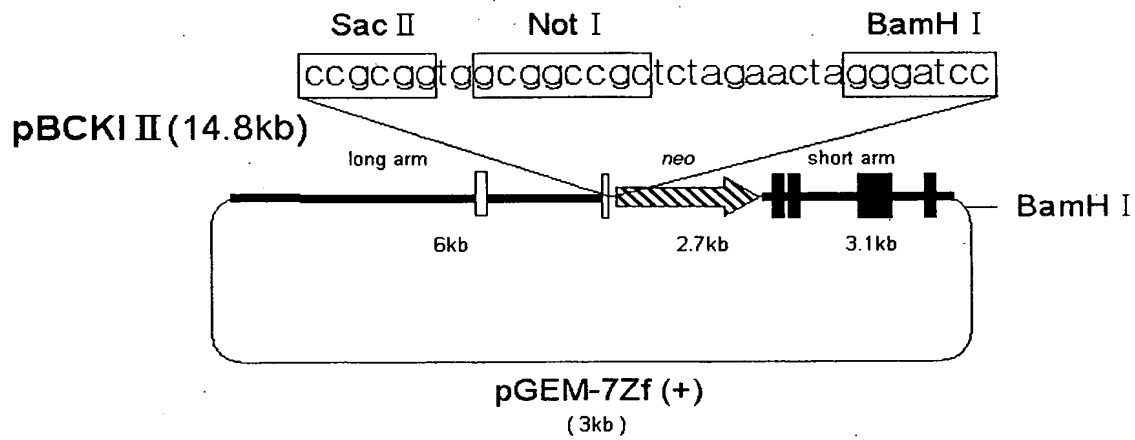
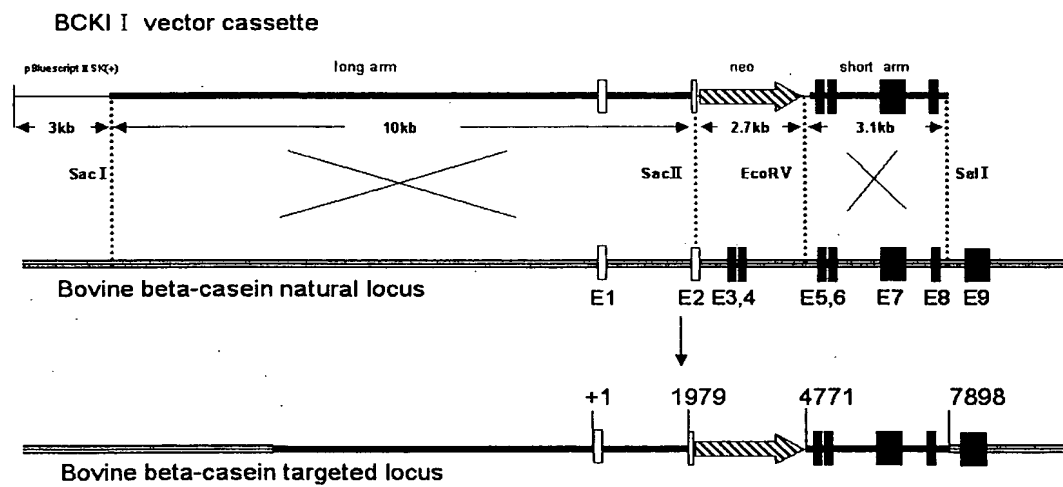


Fig. 2





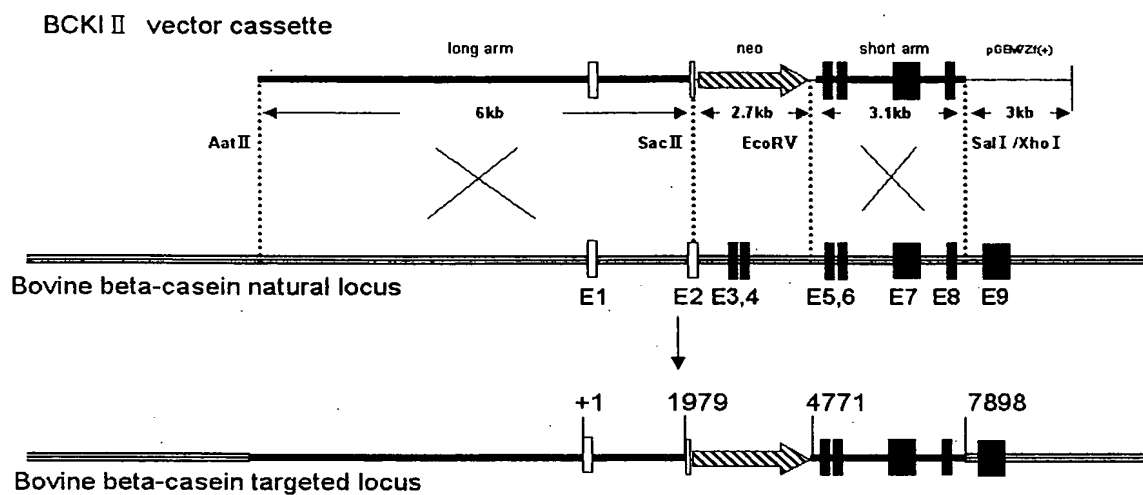
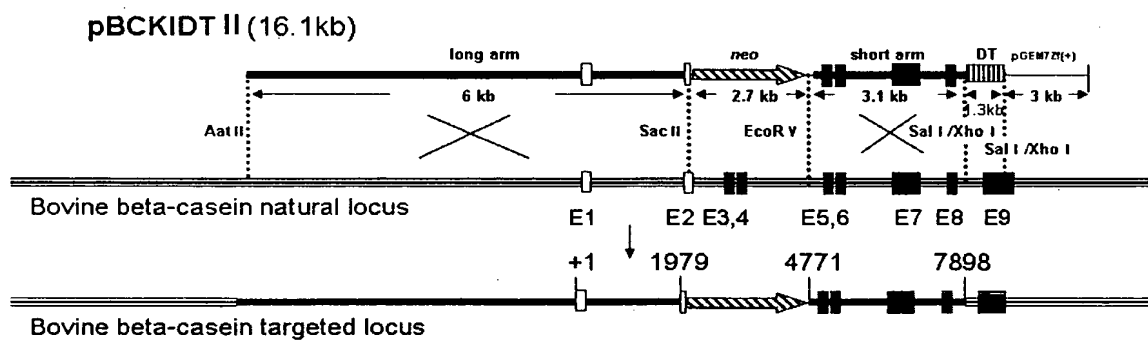
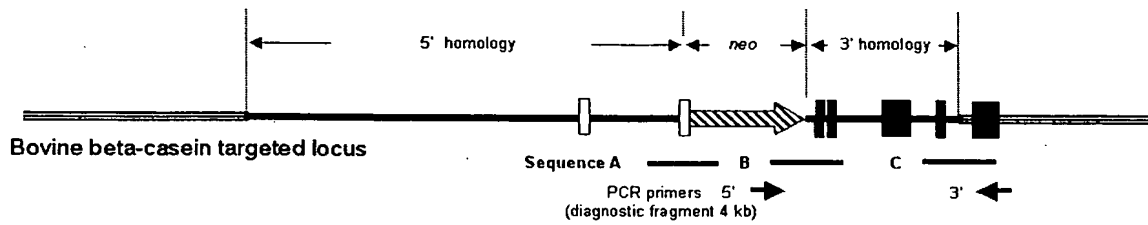
**Fig. 5****Fig. 6**

Fig. 7



## Sequence A

..... cccattcccaggaattgagagcc | ccgcggtggcggccgctctagaactaggatcc | ccaggaagctcctdgtgtcctca .....

5' homology | restriction sites | neo

## Sequence B

PCR primer 5'

..... cttac | ccacacaggcatagaggtctg | c | attaataactatgctcaaaaattgtgtacctttagcttttaatttgaagggttaataagggaatatttgatgtatgtgccttgactagagatcataatcagccataacc

acattgtagagggttttacttgccttaaaaaacctccacacctccctgaacctgaacataaaatgaatgcaattgttgttttaacttgtttatgcagcttataatgggttacaataaagcaatagcatcacaaattc

acaaataaagcatlitttctcgtcattcagttgtgttgcctcaaacctcatcaatgtatcttcatgtctggatc | gacaataaagaattttttaaagctagacc .....

neo | 3' homology

## Sequence C

3' homology | endogenous locus

..... ttcatgagtcacaaatacaatctcacagtc | cagatatgggacttaaaaggggatagaatagtttggatattcttaacaatacacatcdtttgatcatgaltcagcagacatttaataaaatgattccaagtaagc

cgatgttggctctagaggaattttataacccttaagagaaggcatagcattgtgttttgaataagattctttatgaaaaagtcacaccaaaatgcaaatggggtgagatgaagagttatacatataactaat

ctatgtttgtctctat | ccacagaattgactgcgactg | aatat .....

PCR primer 3'

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Fig. 8

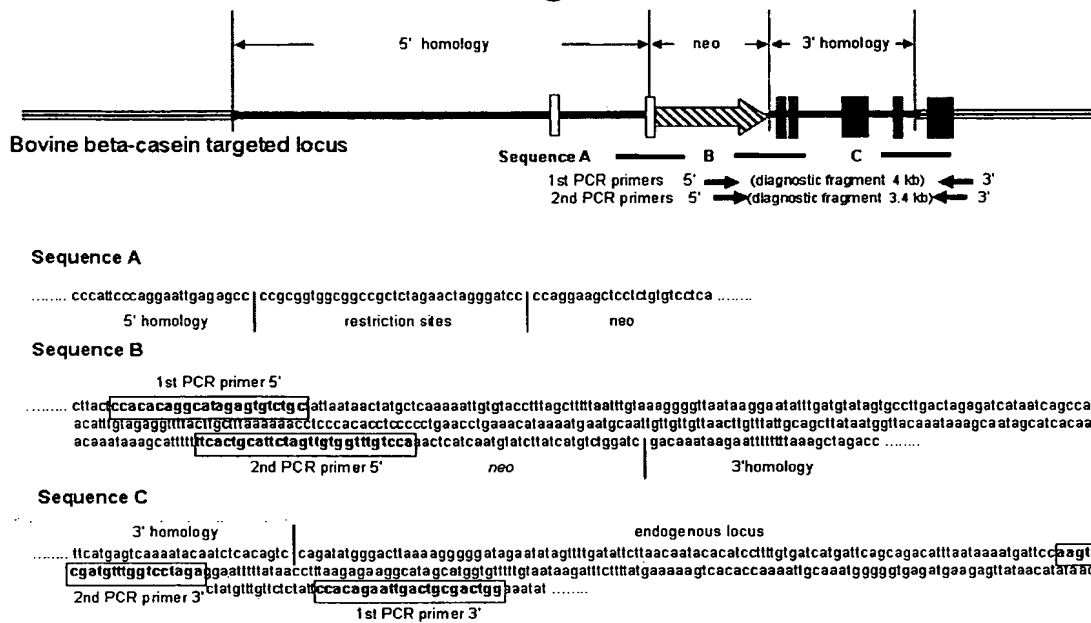
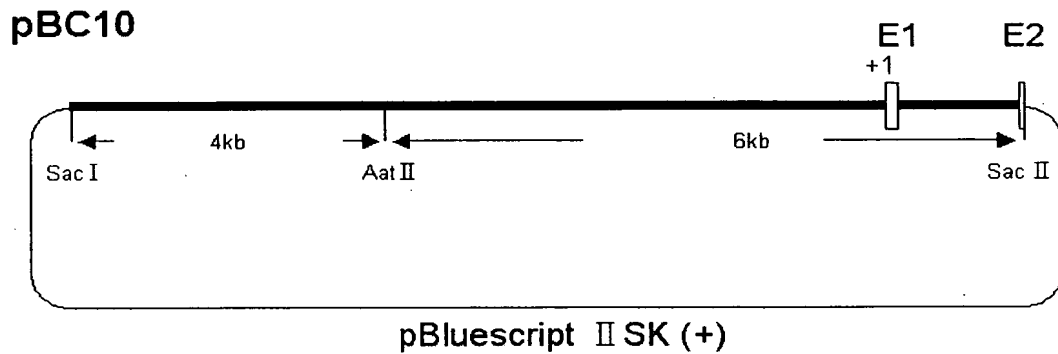


Fig. 9

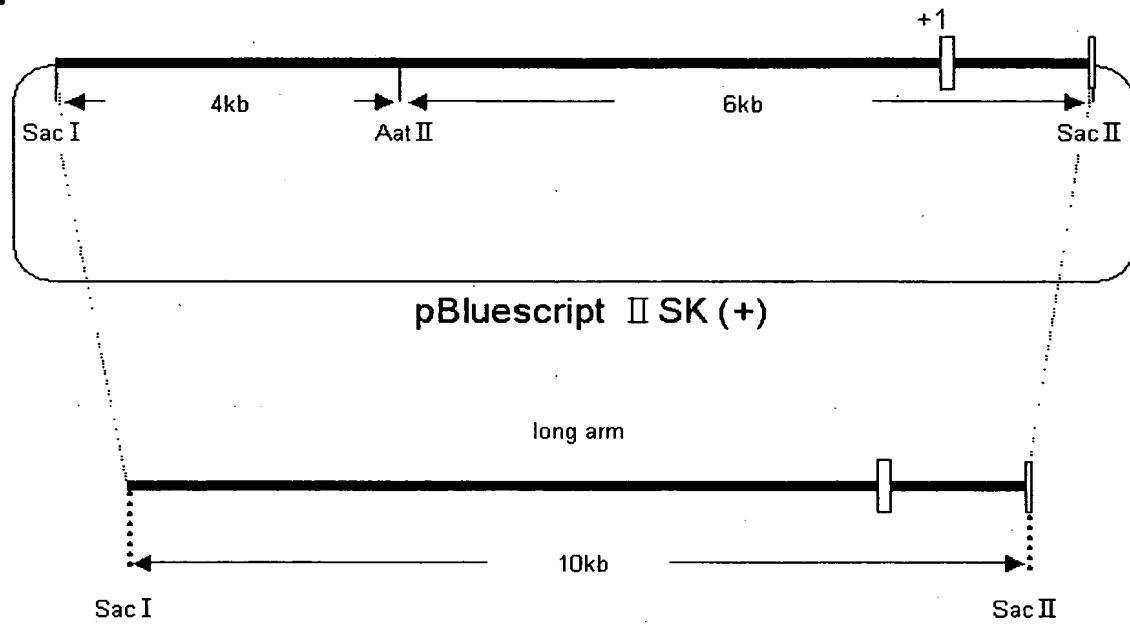


enzymes which do not cut the beta-casein gene locus in BC10 vector  
 Sma I , BamH I , Sal I , Spe I , Cla I

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Fig. 10

pBC10



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Fig. 11

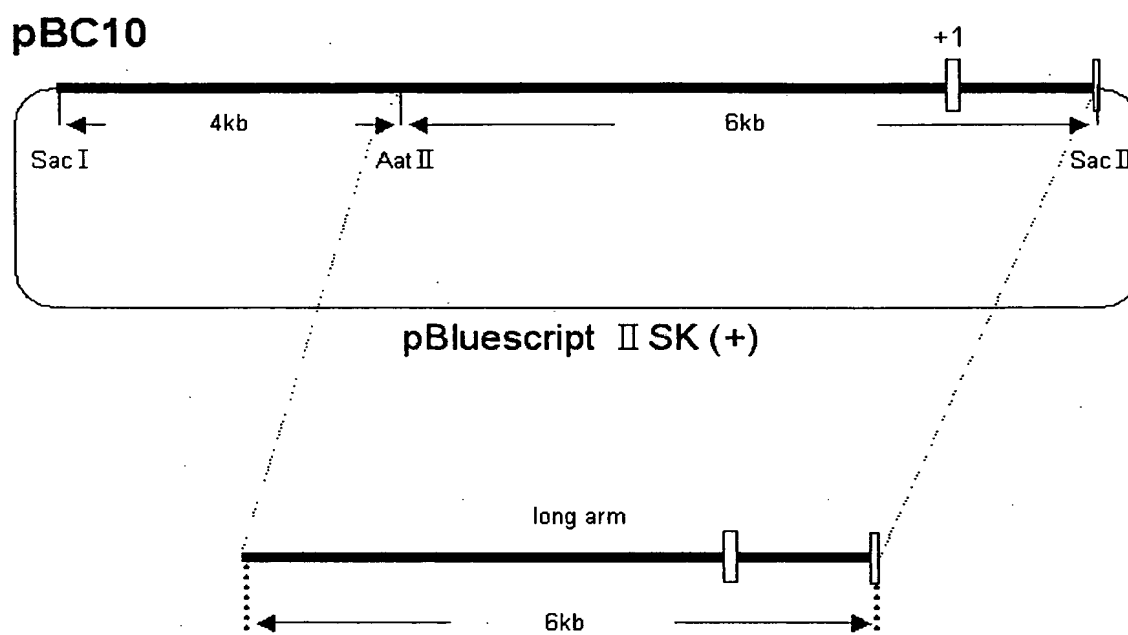
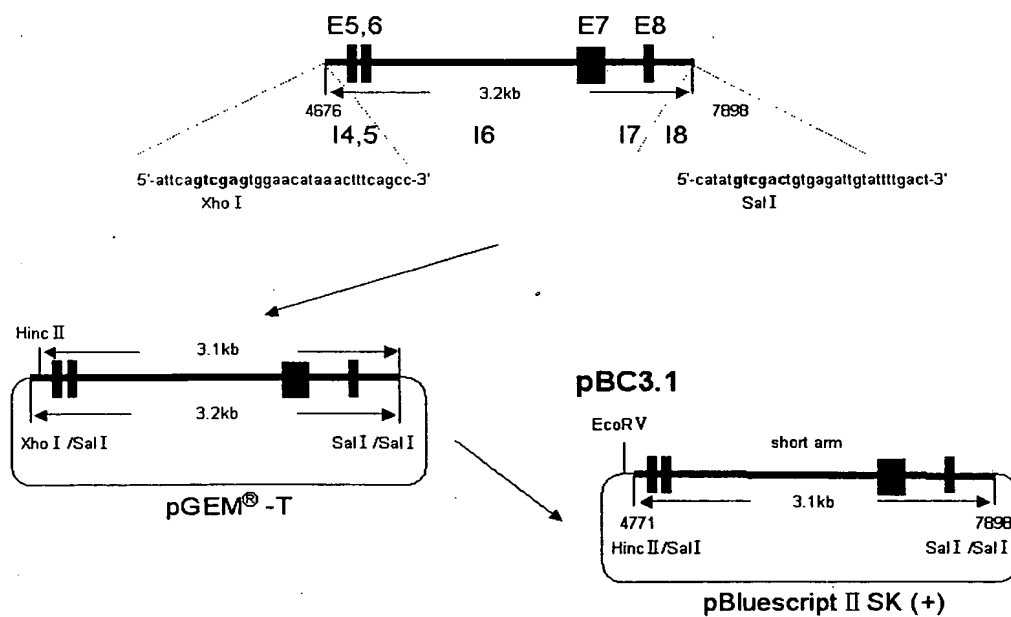
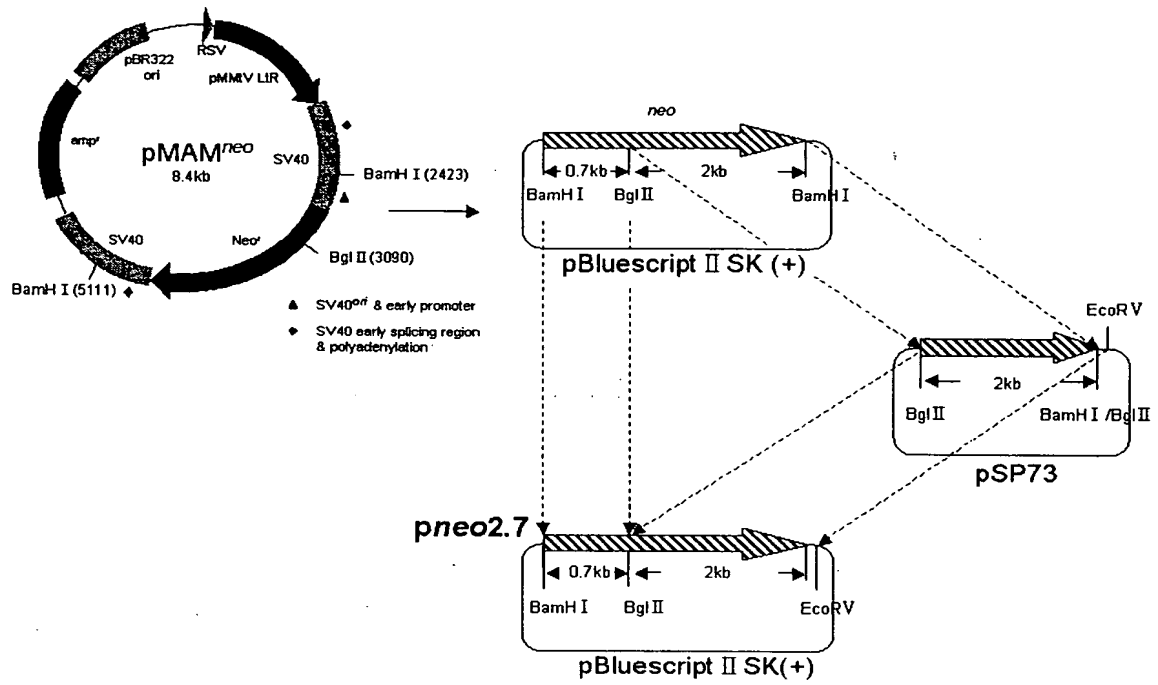


Fig. 12



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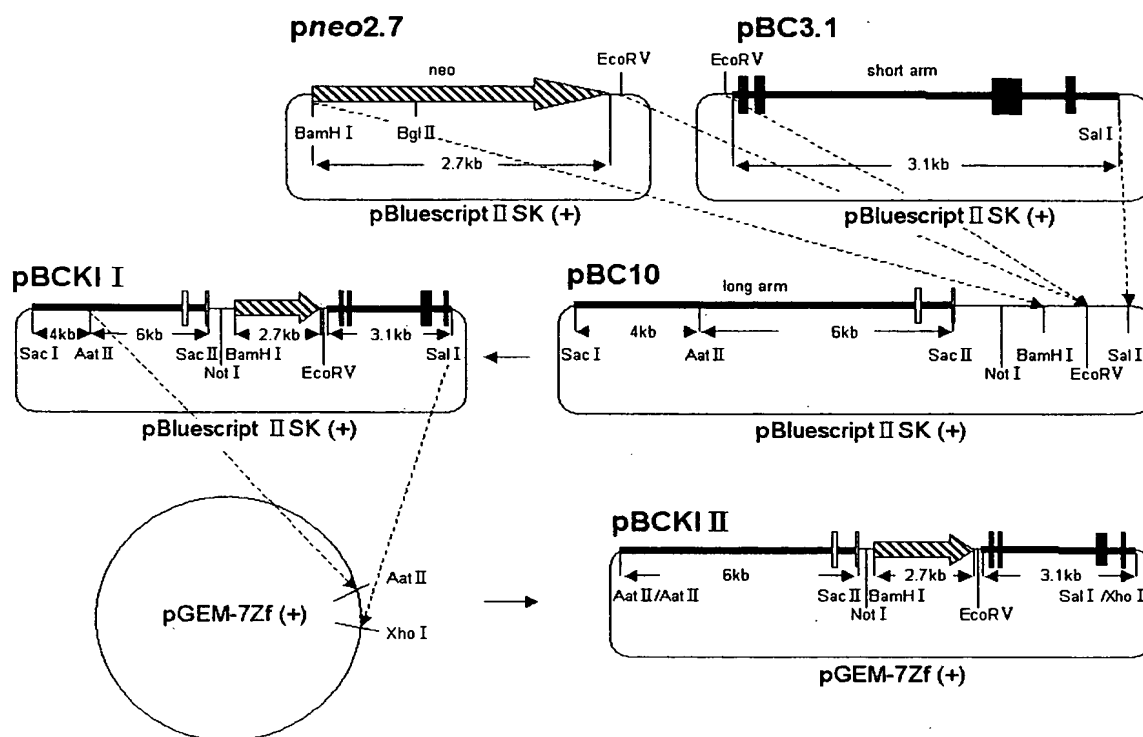
Fig. 13





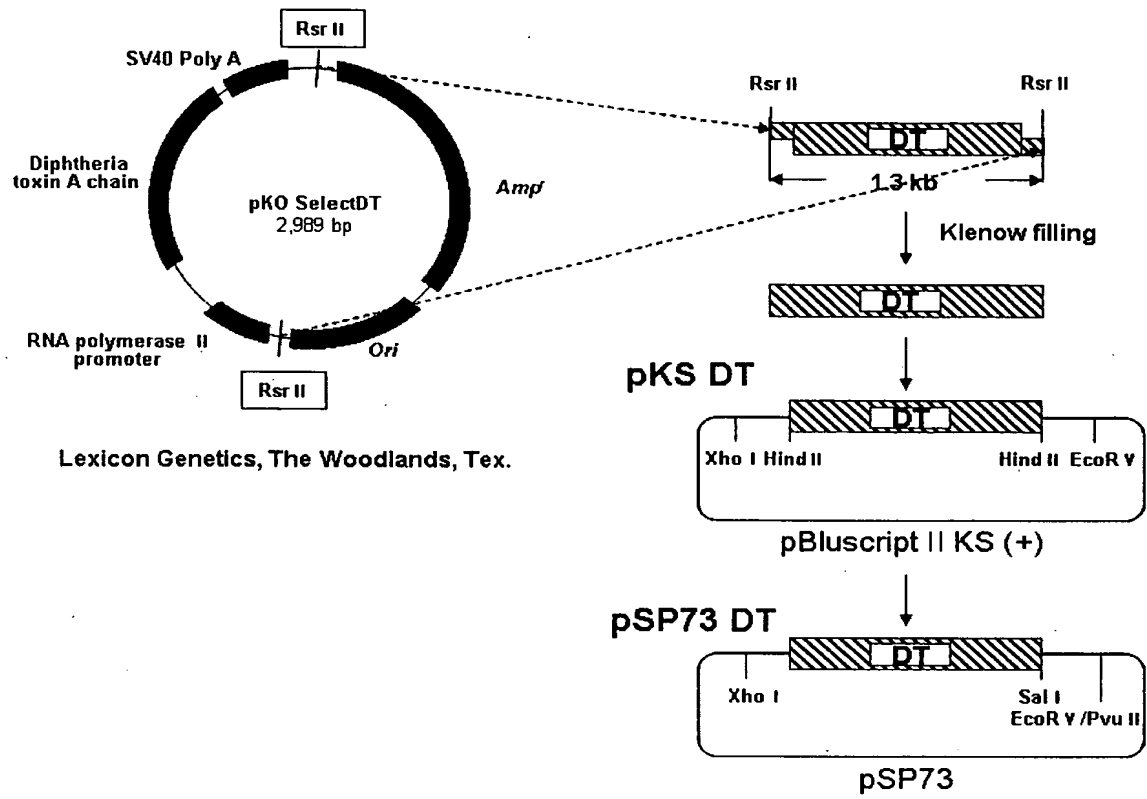
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Fig. 14



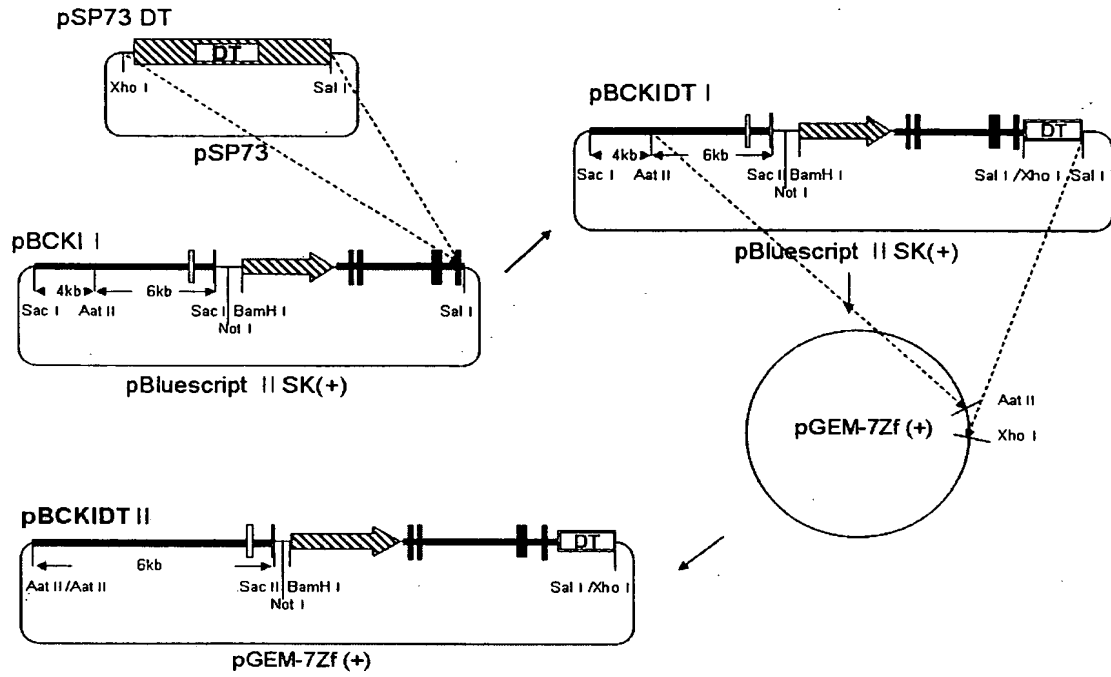
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Fig. 15



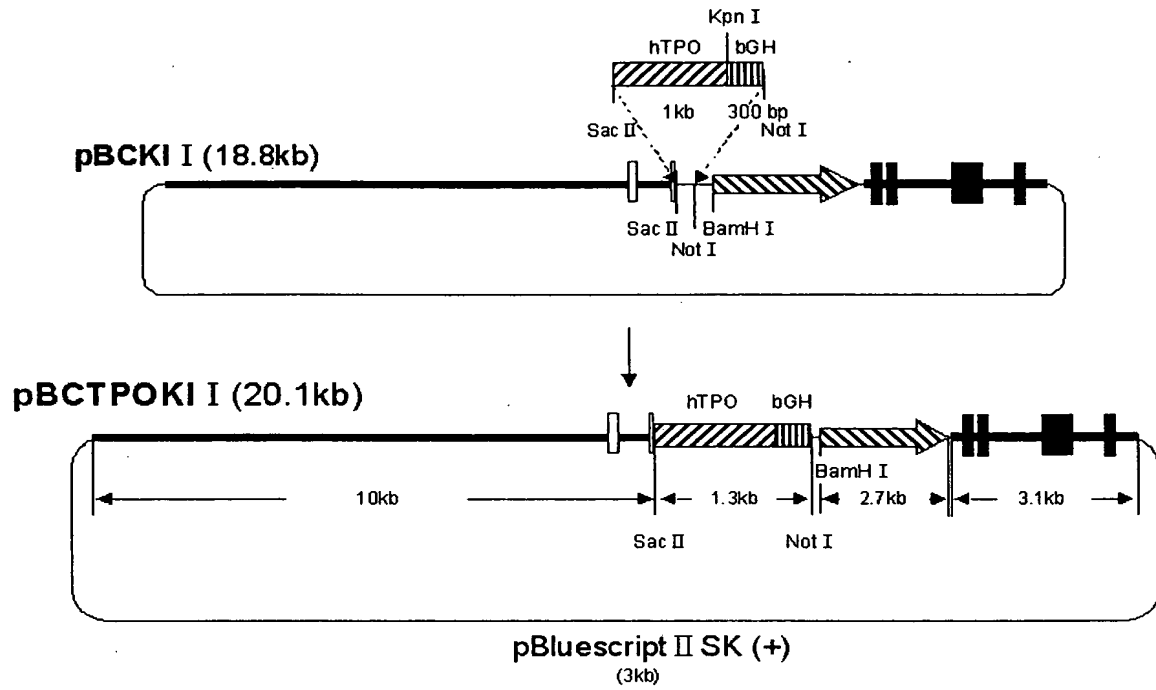
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Fig. 16



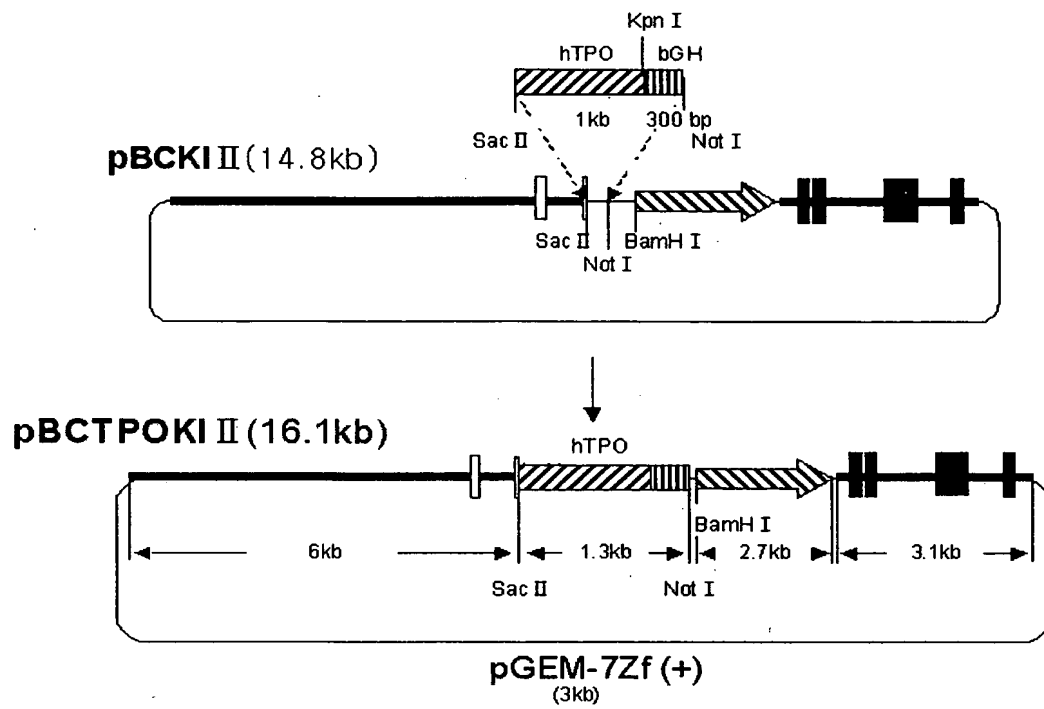
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Fig. 17



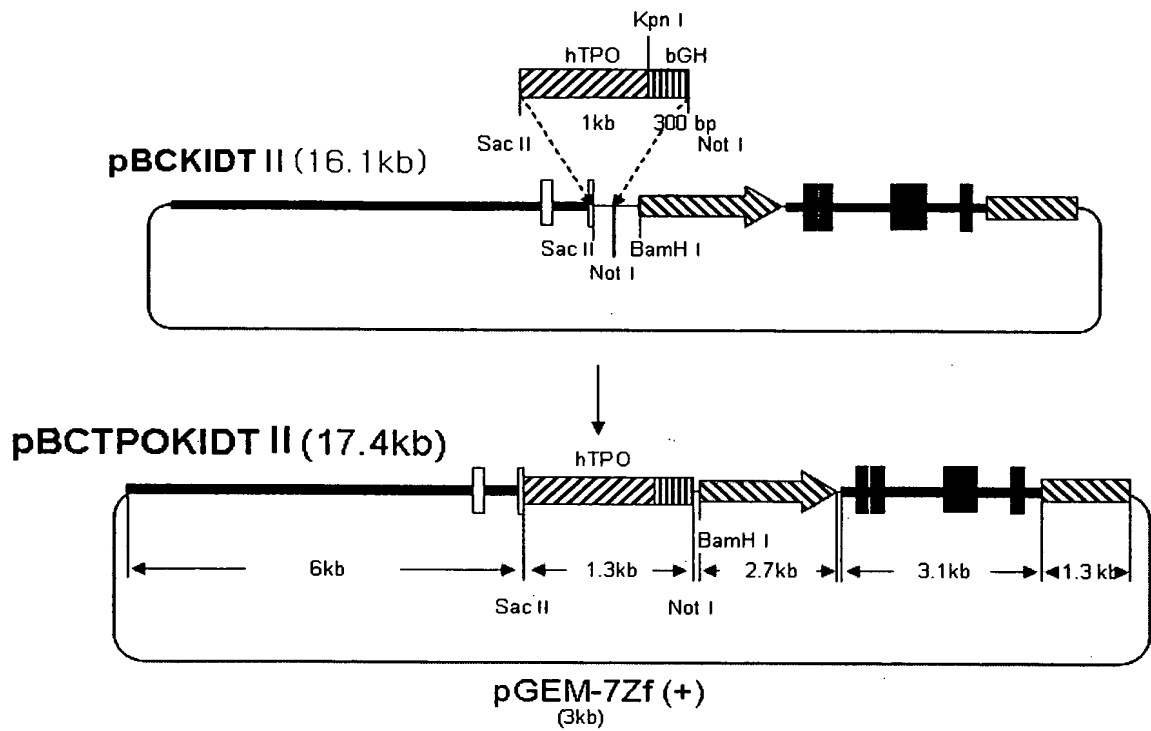
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**Fig. 18**



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**Fig. 19**



**Fig. 20**

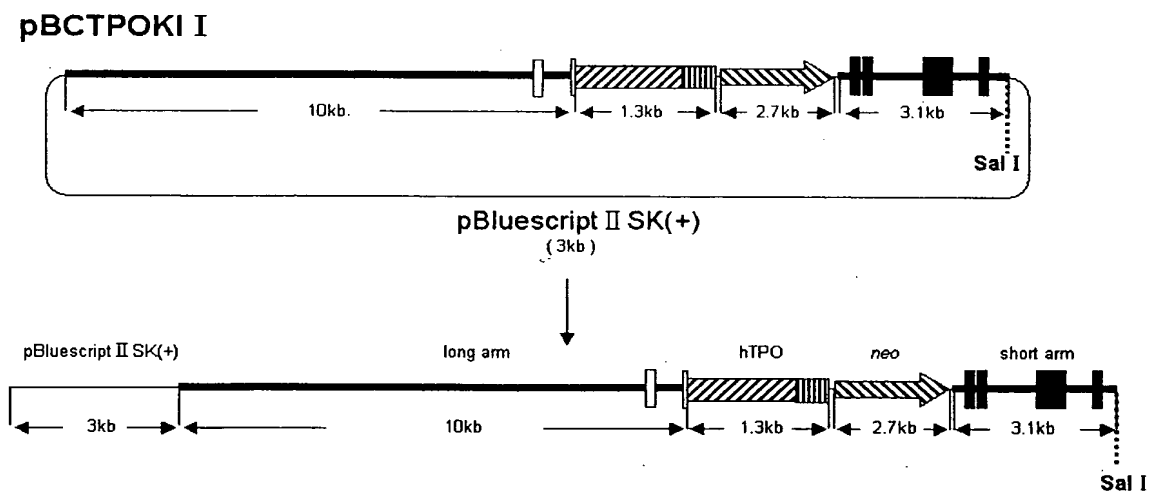


Fig. 21

## pBCTPOKI II

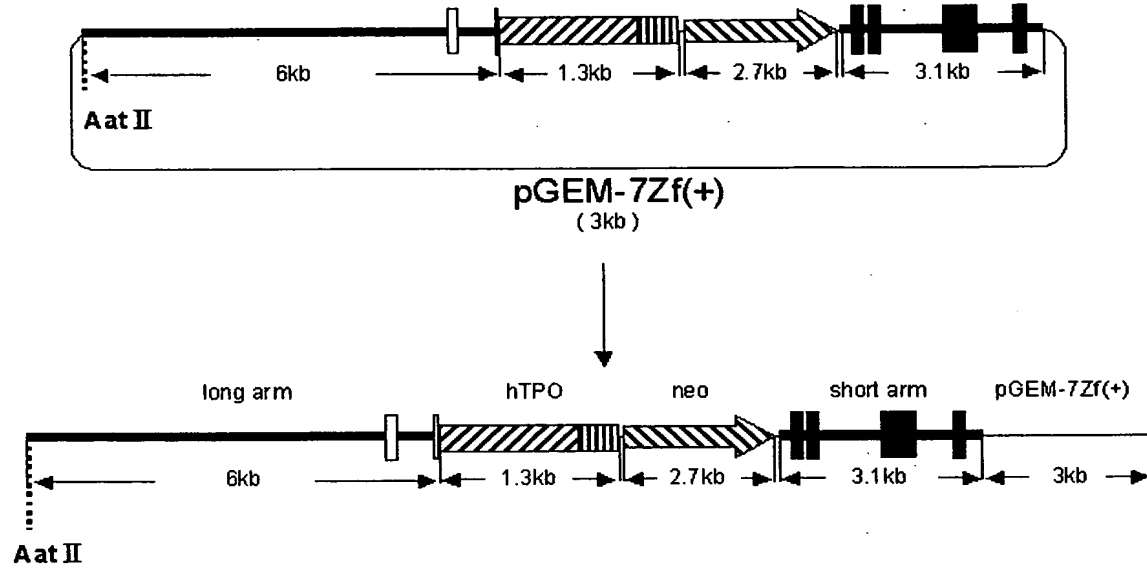
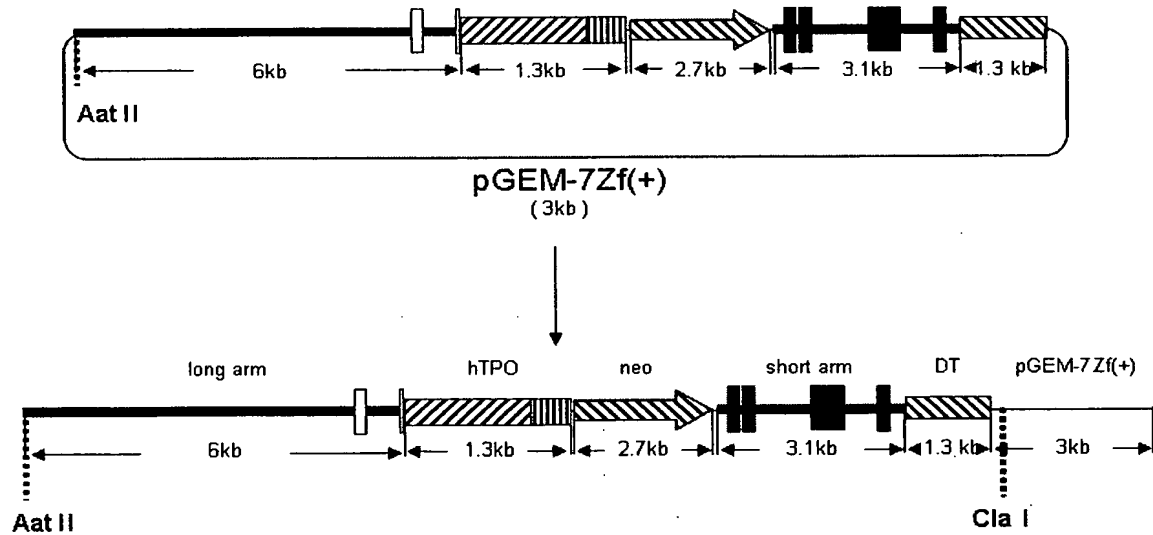


Fig. 22

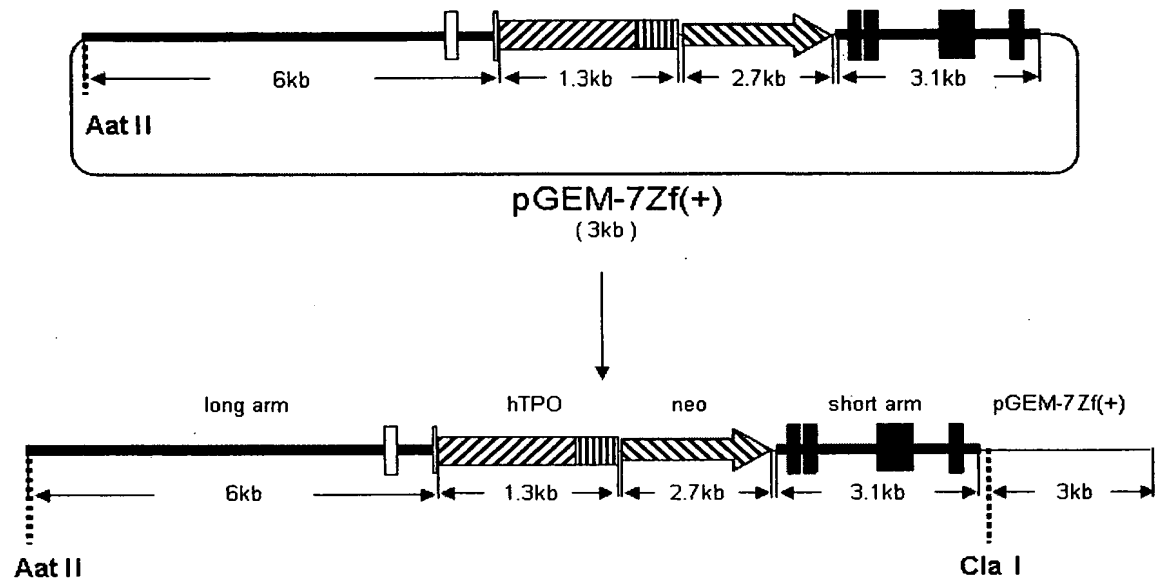
## pBCTPOKIDT II



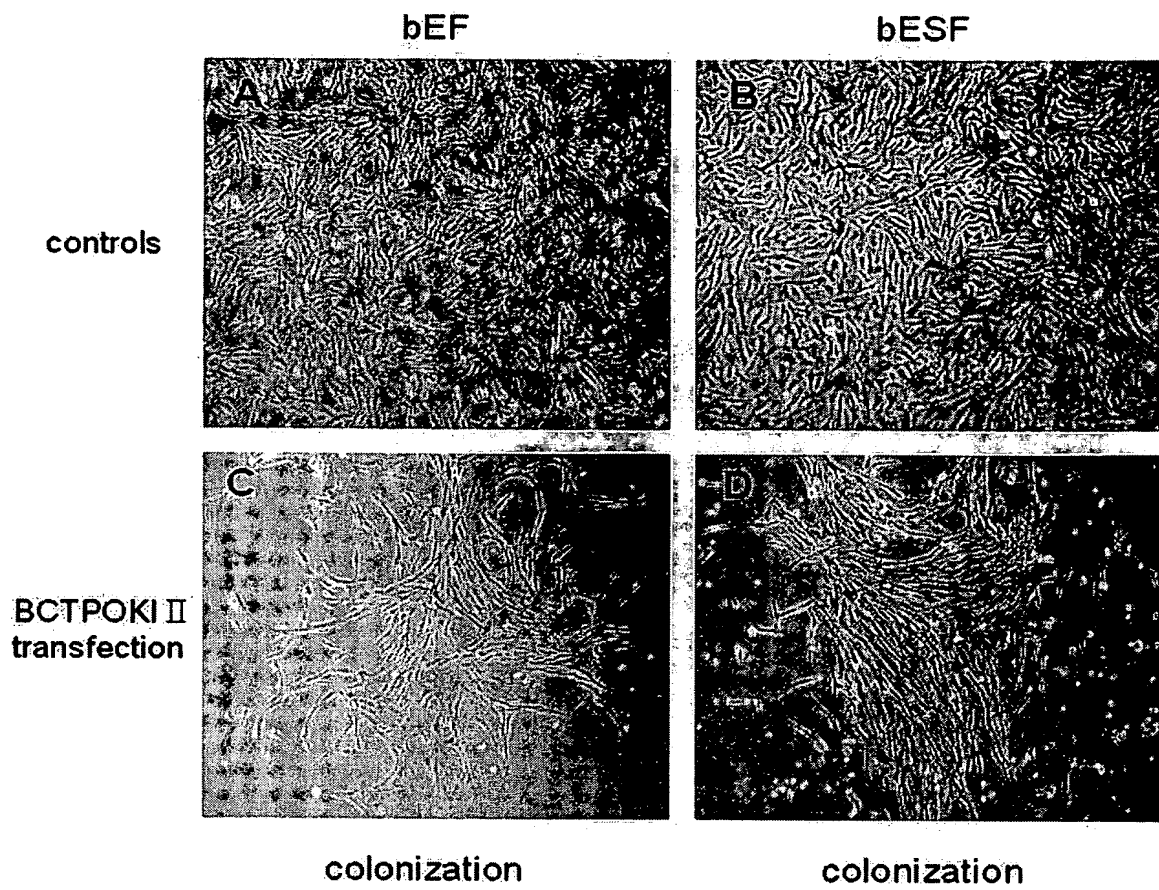
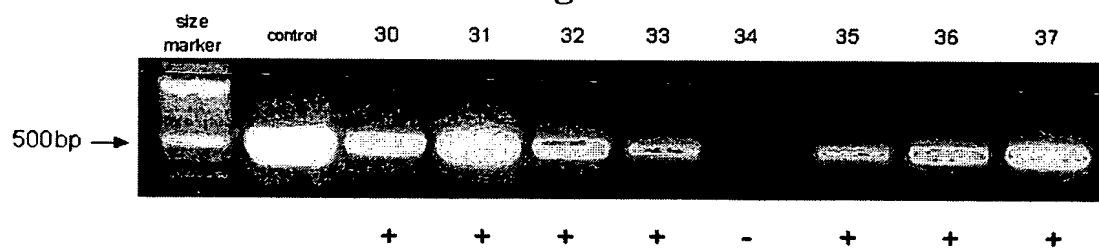
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Fig. 23

pBCTPOKI II





**Fig. 24****Fig. 25**

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Fig. 26

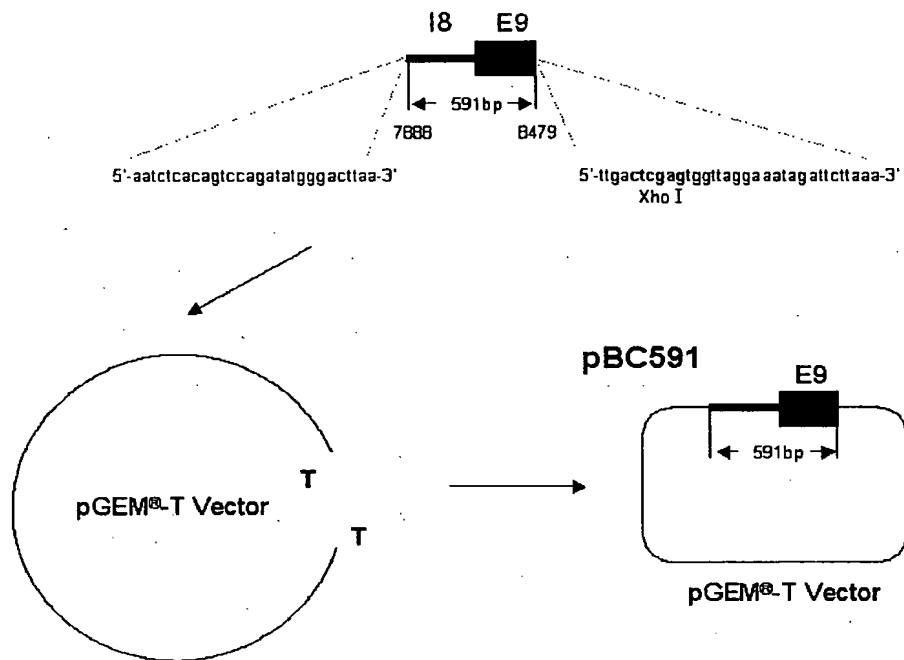
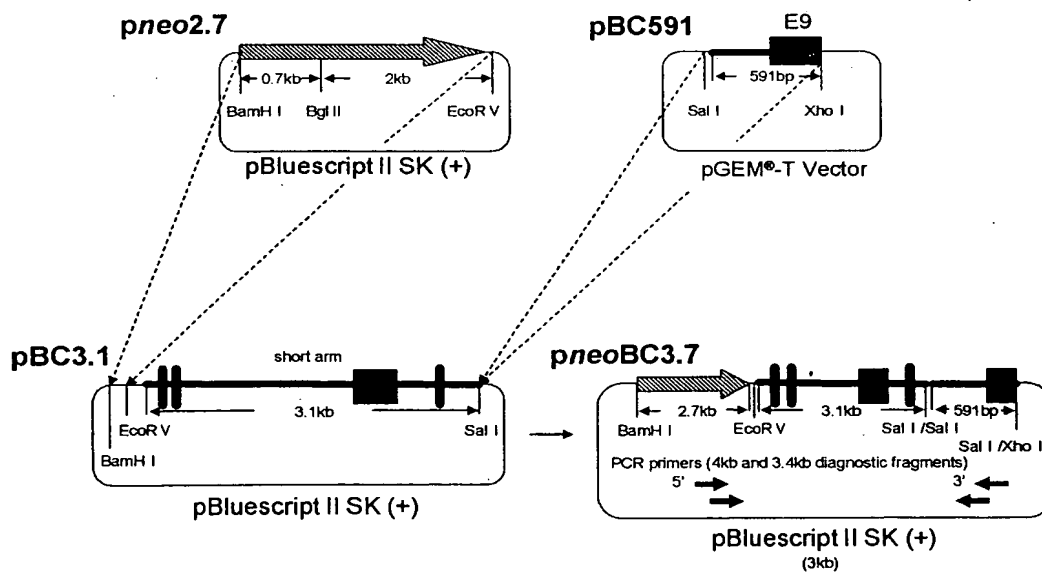
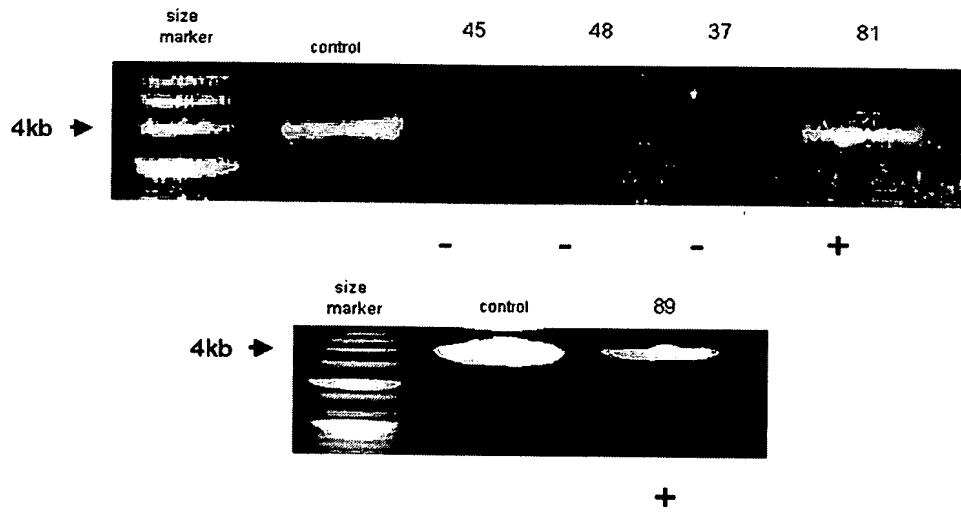


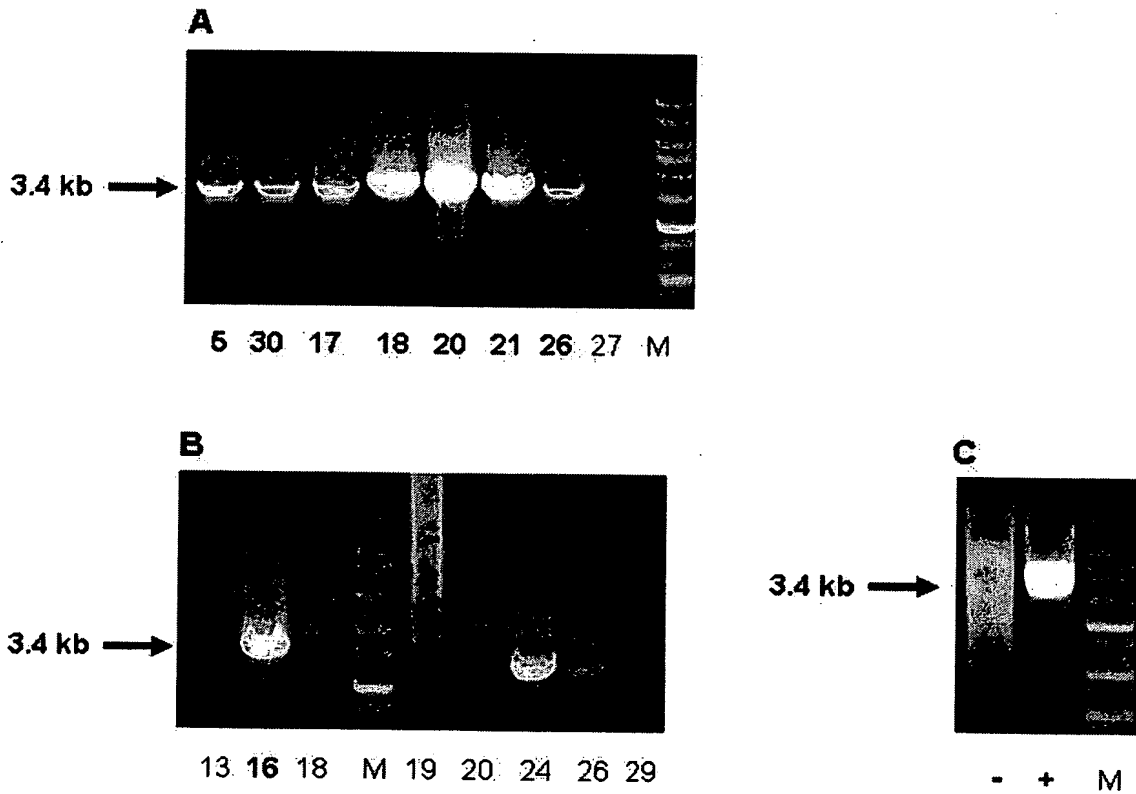
Fig. 27



**Fig. 28**

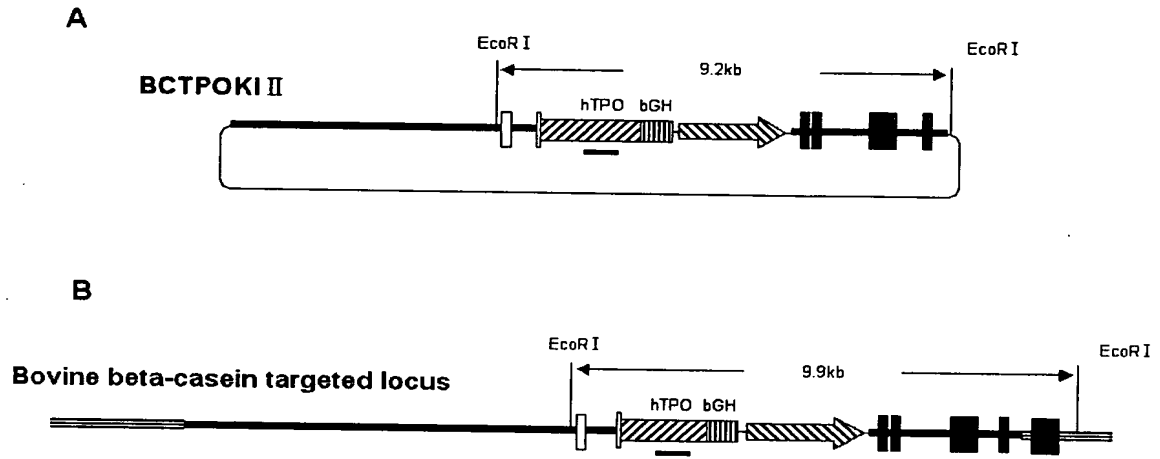


**Fig. 29**

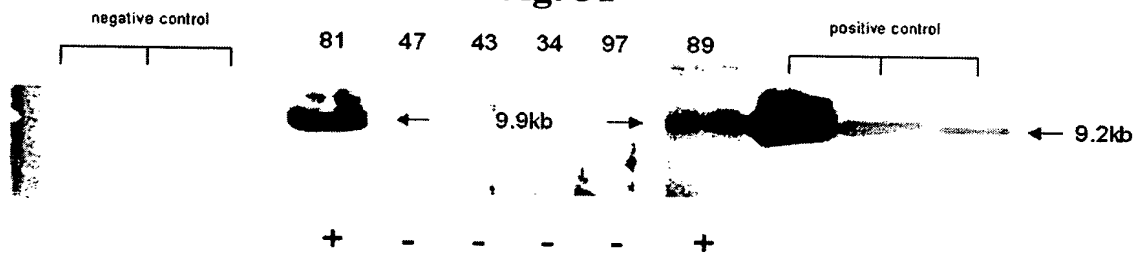


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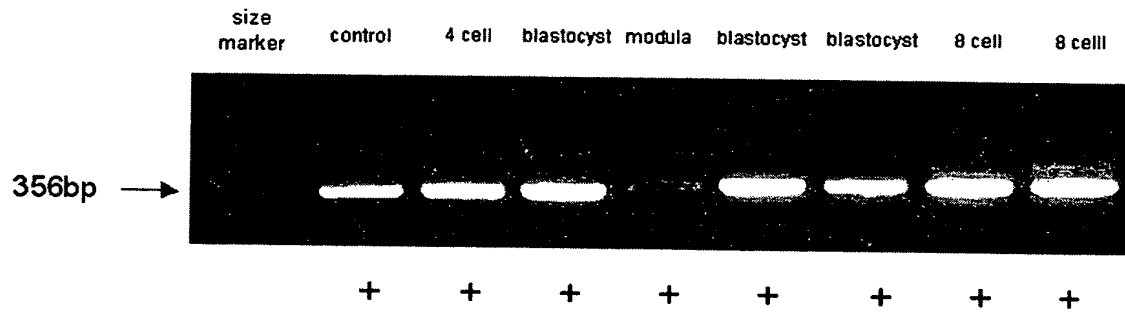
**Fig. 30**



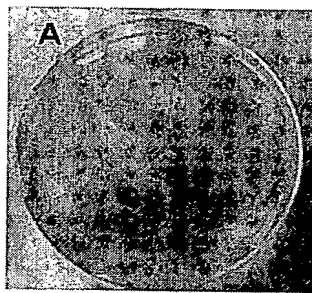
**Fig. 31**



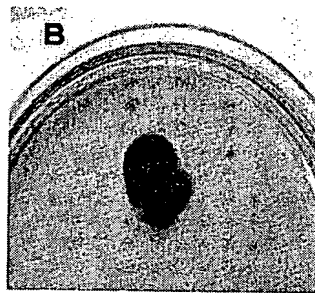
**Fig. 32**



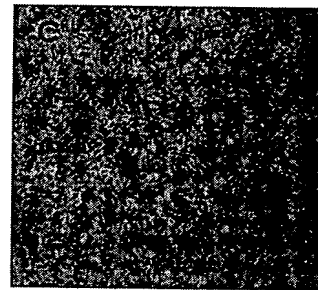
**Fig. 33**



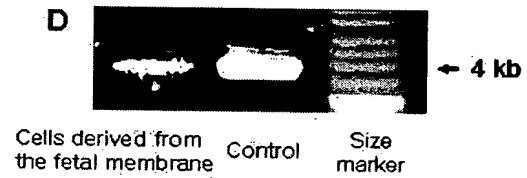
A fetus enclosed with a fetal membrane



A fetal membrane-removed fetus



Cells derived from the fetal membrane



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